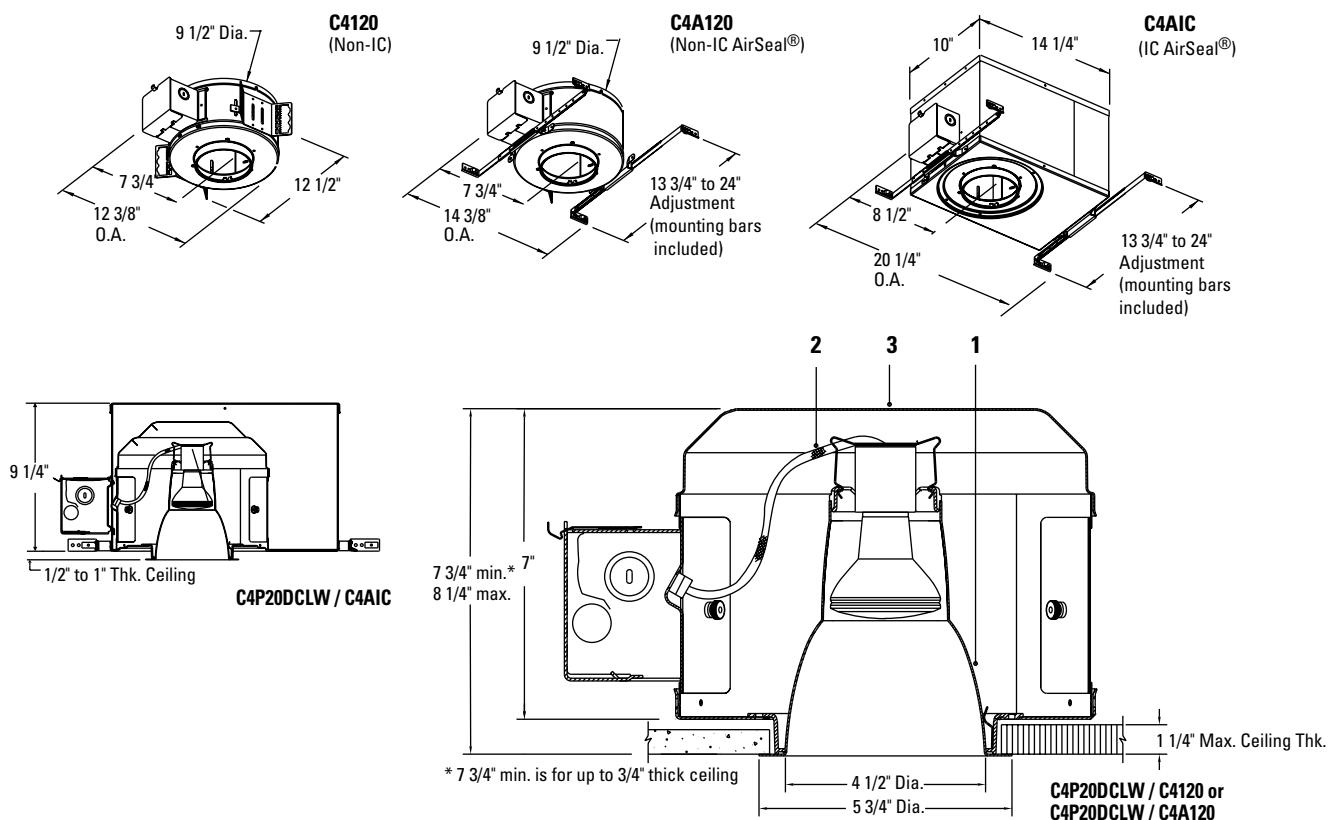




Calculite® Evolution Incandescent Open Downlight C4P20D

Page 1 of 2

4 1/2" Aperture PAR20/PAR16/BR19/R20 Reflector Trim



Ceiling Cutout: 5 1/16" (129 mm) Dia.

Reflector Trim	Frame-In Kit			
C4P20D CLW	Specular Clear, White Flange	Non-IC	Non-IC AirSeal®	IC-AirSeal®
C4P20D CLP	Specular Clear, Polished Flange	C4120	C4A120	C4AIC
C4P20D <input type="checkbox"/>	Add suffix. See options for other finishes.	50W PAR20 75W PAR16 75W BR19, R20	50W PAR20 75W PAR16 75W BR19, R20	50W PAR20 75W PAR16 75W BR19, R20

Features

- Reflector:** 16 ga. Alzak® aluminum, 50° visual cutoff to lamp and lamp image. Available with painted white or polished flange. Interchangeable with other Evolution 4 1/2" line voltage trims.
- Socket Harness:** Spring tension clips snap into die-cast aluminum top at pre-focused positions ensuring correct optical alignment. Medium base porcelain socket with nickel plated screw shell, No. 18 SF-1 leads, and keyed plug-in quick connector for power connection to junction box.
- Frame-In Kit:** Compatible Frame-In Kits are listed above; see separate specification sheet for details.
Non-IC and Non-IC AirSeal® - Insulation must be kept 3" away from fixture sides and wiring compartments and must not be placed above fixture in a manner which will entrap heat.
IC-AirSeal® - Fixture may be in direct contact with insulation.

Options and Accessories

Reflector Finishes ¹	CCD
Comfort Clear Diffuse	CCD
Specular Gold	GD
Specular Black	BK
White	WH

¹Specify desired flange
W White, **P** Polished

Labels

UL Listed (suitable for damp locations), I.B.E.W.

Alzak® is a registered trademark of ALCOA.

US and Foreign Patents Pending.

Job Information Type:

Job Name:

Cat. No.:

Lamp(s):

Notes:

Lightolier a Genlyte Thomas Company
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2003 Genlyte Thomas Group LLC (Lightolier Division) • B0403



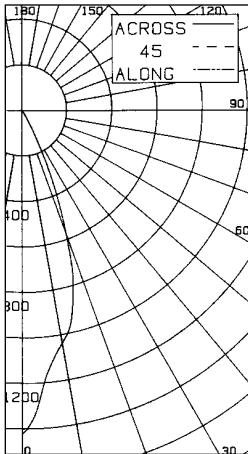
Calculite® Evolution Incandescent Open Downlight C4P20D

Page 2 of 2

4 1/2" Aperture PAR20/PAR16/BR19/R20 Reflector Trim

Spacing Ratio = 0.6

Certified Test Report No. 0838FR
Computed By LSI Program **Test-Lite**
Recessed Open Reflector Downlight
4 1/2" Dia. Aperture, Specular Clear Finish Reflector
50W PAR20 NFL Sylvania Lamp. Lumen Rating = 530 LMS.



Candlepower Summary		
Angle	Mean CP	Lumens
0	1423	
5	1186	115
10	1036	
15	878	238
20	565	
25	259	135
30	84	
35	26	23
40	12	
45	3	4
50	0	
55	0	0
60	0	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

Zonal Lumens And Percentages			
Zone	Lumens	% Lamp	% Luminaria
0-30	448	92.09	94.76
0-40	511	96.49	99.28
0-60	514	97.17	99.98
0-90	515	97.19	100.00
40-90	3	.70	.72
60-90	0	.02	.02
90-180	0	.00	.00
0-180	515	97.19	100.00

** Efficiency = 97.2% **

Date: July 19, 1999

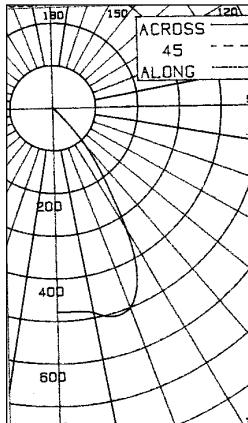
Prepared for

Lightolier, Fall River, MA

Tested According To IES Procedures. Test Distance Exceeds Five
Times The Greatest Luminous Opening Of Luminaria.

Spacing Ratio = 1.0

Certified Test Report No. 0839FR
Computed By LSI Program **Test-Lite**
Recessed Open Reflector Downlight
4 1/2" Dia. Aperture, Specular Clear Finish Reflector
75W R20 GE Lamp. Lumen Rating = 650 LMS.



Candlepower Summary		
Angle	Mean CP	Lumens
0	479	
5	479	46
10	489	
15	508	142
20	500	
25	447	199
30	328	
35	197	131
40	110	
45	25	32
50	3	
55	1	1
60	0	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

Zonal Lumens And Percentages			
Zone	Lumens	% Lamp	% Luminaria
0-30	387	59.60	70.37
0-40	518	79.69	94.09
0-60	550	84.69	99.99
0-90	550	84.70	100.00
40-90	32	5.01	5.91
60-90	0	.01	.01
90-180	0	.00	.00
0-180	50	84.70	100.00

** Efficiency = 84.7% **

Tested According To IES Procedures. Test Distance Exceeds Five
Times The Greatest Luminous Opening Of Luminaria.

Coefficients of Utilization % Effective Ceiling Cavity Reflectance

Room Cavity Ratio	% Wall Reflectance									
	80	70	50	30	10	0				
50	30	10	50	30	10	50	30	10	0	
1	1.11	1.09	1.08	1.09	1.07	1.06	1.05	1.04	1.03	1.00
2	1.06	1.04	1.02	1.05	1.02	1.01	1.02	1.00	.98	.99
3	1.03	1.00	.97	1.01	.99	.97	.99	.97	.95	.95
4	1.00	.96	.94	.99	.96	.93	.97	.94	.92	.92
5	.96	.93	.90	.95	.92	.90	.94	.89	.82	.82
6	.94	.90	.88	.93	.90	.88	.92	.88	.82	.82
7	.91	.88	.85	.91	.87	.85	.87	.81	.78	.78
8	.88	.85	.83	.88	.85	.82	.87	.84	.80	.80
9	.86	.83	.80	.86	.83	.80	.85	.82	.80	.81
10	.84	.81	.78	.84	.81	.78	.83	.80	.78	.77

Conversion Factors

20% Floor Cavity Reflectance

35W, 50W PAR20 NFL: Clear, C.U.x 1.0; Diffuse/Gold, C.U.x 0.95; Black, C.U.x 0.7
60W, 75W PAR16 NFL: Clear, C.U.x 0.90; Diffuse/Gold, C.U.x 0.85; Black, C.U.x 0.6
35W, 50W BR19 SP: Clear, C.U.x 0.85; Diffuse/Gold, C.U.x 0.80; Black, C.U.x 0.6

Coefficients of Utilization % Effective Ceiling Cavity Reflectance

ROOM CAVITY RATIO	% Wall Reflectance									
	80	70	50	30	10	0				
50	30	10	50	30	10	50	30	10	0	
1	.95	.93	.92	.94	.92	.90	.90	.89	.88	.87
2	.90	.87	.85	.88	.86	.84	.86	.84	.82	.83
3	.85	.82	.79	.84	.81	.78	.82	.79	.77	.80
4	.81	.77	.74	.80	.76	.73	.78	.75	.73	.76
5	.76	.72	.69	.75	.71	.69	.74	.71	.68	.73
6	.73	.68	.65	.72	.68	.65	.71	.67	.64	.70
7	.68	.64	.61	.68	.64	.61	.67	.63	.61	.66
8	.65	.60	.57	.64	.60	.57	.63	.59	.57	.62
9	.61	.57	.54	.61	.57	.54	.60	.56	.53	.59
10	.58	.53	.50	.57	.53	.50	.57	.53	.50	.56

Conversion Factors

30W to 75W R20: Clear, C.U.x 1.00; Diffuse/Gold, C.U.x 0.9; Black, C.U.x 0.45

Job Information

Type:

Lightolier a Genlyte Thomas Company

www.lightolier.com

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

We reserve the right to change details of design, materials and finish.

© 2003 Genlyte Thomas Group LLC (Lightolier Division) • B0403

LI
G
H
T
O
L
I
E
R